FIELD REPORT

| Project Number 98-511-66 Project Name BENNETT VALKEY - (ESOW) |
|---|
| Name M. JACKSOW |
| Project Manager |
| ******************* |
| Activity Description |
| PG 9E READING - 36629 |
| TOTALIZER-01,233,652 GALS. RATE THOUGHT TOTALIZER-16 GRM |
| Ex-1 - 20 PSI |
| Ex-2 - 20 PS1 |
| Ex-3-20 PS1 |
| TANK PRESSURE- 150 PSI LEL - Q OUT |
| TOOK CARBON SAMPLES (EFFLUENT, MID, INFLUENT) FROM SYSTEM |
| |
| 156 C |
| |
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| | | | START | UP | | | |
|--------------|--------|------------------------|----------------|----------|--------------------|-------------|-----------|
| | Date: | 7/11/05 | Time: 10:00 |) | Project Number: 98 | -511-66 | |
| | System | m Status: On / | Off Compressor | Hours: | Totalizer: | 1,269,127 | |
| | GRO | UND WATER | RSYSTEM | | | | |
| | Ex-1 | On/ Off | Psi: 20 | Valve P | osition: F/o | | |
| | Ex-2: | On / Off | Psi: 20 | Valve P | osition: F/O | | |
| | Ex-3: | Op/Off | Psi: 20 | . V | osition: F/O | | |
| CHARGE | LEL1 | ETER Q | % | | Filter Changed: | Yes/No No f | TIME TIME |
| | | , | % Electric N | | | | |
| Asset | AIRS | SPARGE SYS | TEMP TANK | PRESSUR. | 5 150 P51 | | |
| Maril States | SP-1: | On / Off | Air Pressure: | psi | Flow Rate: | sefm | - |
| | SP-2: | On/Off | Air Pressure: | psi | Flow Rate: | scfm | |
| | SP-3: | On / Off | Air Pressure: | psi | Flow Rate: | scfm | |
| | SP-4: | On / Off | Air Pressure: | psi | Flow Rate: | scfm | |
| | SP-5: | On / Off | Air Pressure: | psi | Flow Rate: | scfm | |
| | SP-6: | On / Off | Air Pressure: | psi | Flow Rate: | scfm | |
| | Air Re | gulator Setting | g:psi | | | | |
| | сом | MENTS | e P | | | | |
| | | | | | | | |
| | - 3 | 24 (1944) 24 (1944) | | | | | |
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| | Date: 7/8/05 Time: 13:50 Project Number: 98-511-66 |
|--------|---|
| | System Status: On / Off Compressor Hours: Totalizer: 01, 283, 613 |
| | GROUND WATER SYSTEM |
| | Ex-1: On Off Psi: 20 Valve Position: F/O |
| | Ex-2: On Off Psi: 20 Valve Position: F/O |
| | Ex-3: Ony Off Psi: 20 Valve Position: F/O |
| DISCHA | Pre-Filter Inlet Psi: Pre-Filter Outlet Psi: Filter Changed: Yell Police RE LEL |
| В. | AIR SPARGE SYSTEM |
| | SP-1: On / Off Air Pressure:psi Flow Rate:scfm |
| 45 TA | SP-2: On / Off Air Pressure: psi Flow Rate: scfm |
| | SP-3: On / Off Air Pressure: psi Flow Rate: scfm |
| | SP-4: On / Off Air Pressure: psi Flow Rate: sofm |
| | SP-5: On / Off Air Pressure: psi Flow Rate: scfm |
| | SP-6: On / Off Air Pressure: psi Flow Rate:scfm |
| 4 | Air Regulator Setting: psi |
| | COMMENTS BENTS SLIPPED OFF AGAIN. BOTH. |
| 54 | BELT. CENTER PULLYS & RE-START SYSTEM. |
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| | |

| | Date:_ | 7/20/05 | Time: 13:40 |] | Project Number: 98- | 511-66 |
|---------|--------|-----------------|-------------------|---------|---------------------|---------|
| | | 1 1 | Off Compressor Ho | | Totalizer: 01 | 302,929 |
| | GRO | UND WATER | SYSTEM | | | |
| | Ex-1: | On / Off | Psi: 20 | Valve P | osition: F/O | |
| | Ex-2: | On / Off | Psi: <u>20</u> | Valve P | osition: F/O | |
| | Ex-3: | On / Off | Psi: <u>20</u> | . 44 | osition: F/O | |
| SCHANGE | erer h | Iter Inlet Psi: | 90 | | Filter Changed: X | :6/x |
| ß, | AIR S | PARGE SYST | | | | |
| | SP-1: | On / Off | Air Pressure: | psi | Flow Rate: | _scfm_ |
| | SP-2: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| | SP-3: | On / Off | Air Pressure: | psi | Flow Rate: | _scfm |
| | SP-4: | On / Off | Air Pressure: | psi | Flow Rate: | _scfm |
| | SP-5: | On / Off | Air Pressure: | psi | Flow Rate: | _ scfm |
| | SP-6: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| | Air Re | gulator Setting | : psi | | | |
| | COM | MENTS | | | | |
| | SYS | NORKIN | UNNING UP | 30N 1 | AKRIVAL. | |
| | | | | | | |
| | | | | | | 700 |
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| | Date: | 7/28/05 | Time: 10:4 | <u>a</u> | Project Number: | 78-511-66 |
|---------|--------|-----------------|------------------|------------|-----------------|------------|
| | System | n Status On | y Off Compressor | Hours: | Totalizer: | 01,375,885 |
| | GRO | UND WATE | R SYSTEM | | | |
| | Ex-1: | On / Off | Psi: 20 | Valve P | Position: FC |) |
| | Ex-2: | On / Off | Psi: 20 | Valve P | osition: F/O | |
| | Ex-3: | On / Off | Psi: | Valve P | osition: F/O | |
| AIR | Pre-Fi | lter Inlet Psi: | Pre Filter Or | ıtlet Psi: | Filter Change | d: Yes/No |
| DISCHAR | ELEL N | Meter: 0 | % Electric N | Meter: 37(|) 27 kwh | |
| B. | AIR S | SPARGE SYS | STEM 1998 | | , | |
| | SP-1: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| > | SP-2: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| | SP-3: | On/Off | Air Pressure: | psi | Flow Rate: | scfm |
| | SP-4: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| 7 | SP-5: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| | SP-6: | On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| | Air Re | gulator Settin | ig:psi | | | |
| | COM | MENTS | | | | |
| | | | | | · | |
| | | | | | | |
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| | | Sunday 1 | | | | |

| Date: 8 3 05 Time: 13 25 Project Number: 98-511-55 | |
|---|---|
| System Status: On Off Compressor Hours: N/A Totalizer: 01, 430, 2 | 5 |
| GROUND WATER SYSTEM | |
| Ex-1: On / Off Psi: 20 Valve Position: 50 | |
| Ex-2: On / Off Psi: 20 Valve Position: F/O | |
| Ex-3: On/Off Psi: 20 Valve Position: F/O | |
| Pre-Filter Inlet Psi: Pre-Filter Outlet Psi: Filter Changed: YEVTHA AIR LELMETER % Electric Meter: 3715 kwh | |
| AIR SPARGE SYSTEM | |
| SP-1: On / Off Air Pressure:psi Flow Rate:scfm | |
| SP-2: On / Off , Air Pressure: psi Flow Rate: scfm | |
| SP-3: On / Off Air Pressure: psi Flow Rate: scfm | |
| SP-4: On / Off Air Pressure: psi Flow Rate:scfm | |
| SP-5: On / Off Air Pressure: psi Flow Rate: scfm | |
| SP-6: On / Off Air Pressure: psi Flow Rate: scfm | |
| Air Regulator Setting: psi | |
| ALL RUNNING GOOD, NO PROBLEMS, | |
| | _ |
| | _ |
| | _ |
| | _ |
| | _ |

| System GROUN | | Time: 3:35 | I | Project Number: 98-5 | 511- |
|--------------|--|--------------------|---------------|-----------------------|------|
| GROUI | | Off Compressor Hou | | | 211 |
| | ND WATER | ou compressor nea | rs: | Totalizer: 01, 5 | 528, |
| Ex-1: (| IID WATER | SYSTEM | | | • |
| ZA 1. | On / Off | Psi: 30 | Valve Po | osition: F(O | _ |
| Ex-2: (| On / Off | Psi: 30 | Valve Po | osition: F/O | _ |
| Ex-3: (| On / Off | Psi: 30 | Valve Po | osition: F/O | _ |
| | er Inlet Psi: | | Psi: | _ Filter Changed: Yes | /No |
| | 4 at 4 and a common and a supple of the last of the la | % Electric Meter | r: <u>373</u> | 384 kwh | |
| AIR SP | ARGE SYST | TEM | | | |
| SP-1: (| On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-2: (| On/Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-3: (| On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-4: (| On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-5: (| On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-6: (| On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| Air Reg | ulator Setting | : psi | | | |

FIELD REPORT

| Project Number 98-511-66 Project Name BENNETT VALLEY (ESOW) |
|---|
| Date 9 9 05 |
| Name M. JACKSON |
| Project Manager |
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| * |
| Activity Description |
| PG9E METER - 38271 |
| TOTAGER -01,912,607 GALS, |
| |
| PUMP PRESSURE - 30 P.S.I. |
| |
| LEL'S - & % |
| 0 0 0 0 0 150 DC 1 |
| COMPRESSOR : OIL GOOD. PRESSURE 150 P.S. I. |
| AUTO DRAW: WORKING |
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| | Date: 9 21 05 Time: 13:45 Project Number: 98-51-66 |
|-------------|--|
| | System Status: On Off Compressor Hours: Totalizer: O2 081,415 |
| | GROUND WATER SYSTEM |
| | Ex-1: On/Off Psi: 30 Valve Position: F/O |
| V | Ex-2: On Off Psi: 30 Valve Position: Flo |
| | Ex-3: On/Off Psi: 30 Valve Position: |
| DIS. AIR | Pre-Filter Inlet Psi: Pre-Filter Outlet Psi: Filter Changed: Yes/ No. LEL Meter: % Electric Meter: 3867 kwh |
| ٨, | AIR SPARGE SYSTEM |
| | SP-1: On / Off Air Pressure: psi Flow Rate: scfm |
| | SP-2: On / Off Air Pressure: psi Flow Rate: scfm |
| / | SP-3: On / Off Air Pressure:psi Flow Rate:scfm |
| 4.5 | SP-4: On / Off Air Pressure: psi Flow Rate: scfm |
| | SP-5: On Off Air Pressure: psi Flow Rate: scfm |
| | SP-6: On / Off Air Pressure: psi Flow Rate: scfm |
| | Air Regulator Setting: psi |
| | COMMENTS |
| | WILL NEED OIL CHANGE IN ABOUT 2 WKS. |
| | ALL ESSE RUNNING GOOD. |
| | |
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| Date: 928 05 Time: 11:00 Project Number: 98-511-66 |
|---|
| System Status: On Off Compressor Hours: NA Totalizer: 02,177,58 |
| GROUND WATER SYSTEM |
| Ex-1: On Off Psi: 30 Valve Position: FO |
| Ex-2: On Off Psi: 30 Valve Position: FO |
| Ex-3: On) Off Psi: 30 Valve Position: FO |
| Pre-Filter Inlet Psi: Filter Changed: Yes |
| LEL Meter: |
| AIR SPARGE SYSTEM |
| SP-1: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-2: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-3: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-4: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-5: On Off Air Pressure: psi Flow Rate: scfm |
| SP-6: On / Off Air Pressure:psi Flow Rate:scfm |
| Air Regulator Setting: psi |
| COMMENTS |
| ALL RUNNING GOOD. |
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| Date: 16/3/05 | Time: 12,00 | Project Number: 9 | 8-511-66 |
|-----------------------|-------------------|------------------------|------------|
| System Status: On | Off Compressor Ho | urs: Totalizer: 2 | 12,246,194 |
| GROUND WATE | R SYSTEM | | |
| Ex-1: On / Off | Psi: 30 | Valve Position: |) |
| Ex-2: On / Off | Psi: 30 | Valve Position: | |
| Ex-3: On / Off | Psi: 30 | Valve Position: FO | |
| Pre-Filter Inlet Psi: | Pre-Filter Outle | t Psi: Filter Changed: | Yes/Ao |
| LEL Meter: | % Electric Mete | er: 39066 kwh | |
| AIR SPARGE SYS | STEM | | |
| SP-1: On/Off | Air Pressure: | psi Flow Rate: | scfm |
| SP-2: On/Off | , Air Pressure: | psi Flow Rate: | scfm |
| SP-3: On/Off | Air Pressure: | psi Flow Rate: | scfm |
| SP-4: On/Off | Air Pressure: | psi Flow Rate: | scfm |
| SP-5: On/Off | | | scfm |
| SP-6: On/Off | Air Pressure: | psi Flow Rate: | scfm |
| Air Regulator Settir | ng:psi | | |
| COMMENTS | | | |
| TOOK EFFAUE | ENT, MID, INFA | DENT SAMPLES FRO | M CARBONS |
| | | | |
| | | | |
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| Date: 10 20 05 | Time: 10:30 | I | Project Number: 98- | 511-66 |
|--|--|---------|---------------------|----------|
| System Status: On | Off Compressor Ho | urs: | Totalizer: O | 2,360,75 |
| GROUND WATER | RSYSTEM | | | |
| Ex-1: On Off | Psi: 30 | Valve P | osition: F/O | |
| Ex-2: On/Off | Psi: 30 | Valve P | osition: F/O | |
| Ex-3: On/ Off | Psi: 30 | Valve P | osition: F/O | |
| Pre-Filter Inlet Psi: | Pre-Filter Outlet | Psi: | Filter Changed: | Yes / No |
| LEL Meter: | _% Electric Mete | er: 393 | 336 kwh | |
| AIR SPARGE SYS | TEM | | | |
| SP-1: On / Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-2: On/Off | , Air Pressure: | psi | Flow Rate: | scfm |
| SP-3: On/Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-4: On/Off | Air Pressure: | psi | Flow Rate: | scfm |
| SP-5: On/Off | The state of the s | psi | Flow Rate: | scfm |
| SP-6: On/Off | Air Pressure: | psi | Flow Rate: | scfm |
| Air Regulator Settin | g: psi | | | |
| COMMENTS | | | | |
| PRODUCT TH | ICKENS 0.0 | 3 IN. | | |
| STSTEM RU | MOAN DAINA | ARRIV | AL, ALL G | 000. |
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| Date: 10/27/05 Time: 12:00 Project Number: 98-511-66 |
|---|
| System Status: On) Off Compressor Hours: MA Totalizer: 02.452.47 |
| GROUND WATER SYSTEM |
| Ex-1: On / Off Psi: 30 Valve Position: F |
| Ex-2: On / Off Psi: 30 Valve Position: F |
| Ex-3: On / Off Psi: 30 Valve Position: |
| Pre-Filter Inlet Psi: Pre-Filter Outlet Psi: Filter Changed: Yes / No |
| LEL Meter: |
| AIR SPARGE SYSTEM |
| SP-1: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-2: On / Off , Air Pressure: psi Flow Rate: scfm |
| SP-3: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-4: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-5: On / Off Air Pressure: psi Flow Rate: scfm |
| SP-6: On Off Air Pressure: psi Flow Rate: scfm |
| Air Regulator Setting: psi |
| COMMENTS |
| PZ-1-16:05 |
| MW-7-11073 |
| MM-16-12-16 |
| MM-1,1-13.59 |
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APPENDIX D WATER SAMPLING DATA SHEETS

ECM STANDARD OPERATING PROCEDURE

GROUND WATER SAMPLING

The following describes sampling procedures used by ECM field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed 10%).

Ground water samples are collected from the wells/borings with steam-cleaned or disposable Teflon bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C with blue ice or ice) for transport under chain-of-custody to the laboratory.

The chain-of-custody form includes the project number, analysis requested, sample ID, date analysis and the ECM field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.